

IN THE CLAIMS:

Please amend the claims as follows. This listing of the claims will replace all prior versions, and listings, of claims in the application:

1 – 12 (Canceled)

13. (Currently Amended) A gas burner for liquid fuel, ~~especially vegetable oil~~, comprising:
 - an evaporator for evaporating the liquid fuel;
 - an evaporation chamber limited by a boundary wall;
 - a gas discharge channel for producing a gas jet formed in said boundary wall; and said evaporator boundary wall constructed at least as a double-walled structure with an inner wall and an outer wall.
14. (Previously Presented) The gas burner according to claim 13, including said inner wall and said outer wall of said evaporator formed from different materials.
15. (Previously Presented) The gas burner according to claim 14, including said inner wall of said evaporator formed from a chemically inactive material, such as stainless steel.
16. (Canceled)
17. (Canceled)

18. (Previously Presented) The gas burner according to claim 13, including said outer wall of said evaporator formed from a heat-conductive material, such as copper.
19. (Previously Presented) The gas burner according to claim 13, including said gas discharge channel having an opening edge tapered from said evaporation chamber.
20. (Previously Presented) The gas burner according to claim 19, including said tapered opening edge of said gas discharge channel constructed as substantially conical in shape enclosing a cone angle substantially between 50° and 70°.
21. (Previously Presented) The gas burner according to claim 19, including said tapered opening edge connected to a constriction point formed in said gas discharge channel.
22. (Previously Presented) The gas burner according to claim 21, including said constriction point of said gas discharge channel is constructed substantially as a hollow-cylindrical shape.
23. (Previously Presented) The gas burner according to claim 13, including said gas discharge channel has an outlet opening edge constructed substantially as a conical shape enclosing a cone angle at least greater than about 15° to 20°.
24. (Previously Presented) The gas burner according to claim 13, including said evaporator constructed as an evaporator tube.

25. (Previously Presented) The gas burner according to claim 21, including said constriction point of said gas discharge channel constructed in said inner wall.
26. (Previously Presented) The gas burner according to claim 25, including a gas jet opening constructed in said outer wall having a flow cross-section larger than a flow cross-section formed in said constriction point.
27. (Previously Presented) The gas burner according to claim 21, including a gas jet opening constructed in said outer wall having a flow cross-section larger than a flow cross-section formed in said constriction point.
28. (Currently Amended) A gas burner for liquid fuel, comprising:
~~the liquid fuel formed from vegetable oil;~~
an evaporator for evaporating said liquid fuel;
an evaporation chamber limited by a boundary wall;
a gas discharge channel for producing a gas jet formed in said boundary wall, said gas discharge channel having an opening edge tapered from said evaporation chamber;
said tapered opening edge connected to a constriction point formed in said gas discharge channel; and
said evaporator boundary wall constructed at least as a double-walled structure with an inner wall and an outer wall formed from different materials.
29. (Previously Presented) The gas burner according to claim 28, including said evaporator constructed as an evaporator tube.

30. (Previously Presented) The gas burner according to claim 28, including said constriction point of said gas discharge channel constructed in said inner wall.
31. (Previously Presented) The gas burner according to claim 30, including a gas jet opening constructed in said outer wall having a flow cross-section larger than a flow cross-section formed in said constriction point.
32. (Previously Presented) The gas burner according to claim 28, including a gas jet opening constructed in said outer wall having a flow cross-section larger than a flow cross-section formed in said constriction point.
33. (New) The gas burner according to claim 13, including said gas discharge channel has an opening edge and a constriction point, said opening edge being communicated with said evaporator channel and said opening edge being upstream of said constriction point relative to a flow of gas from said evaporator channel to beyond said evaporator boundary wall, whereupon gas flows in the flow of gas sequentially from said evaporator channel through said opening edge of said gas discharge channel, thereafter through said constriction point, and thereafter beyond said evaporator boundary wall, and said opening edge of said gas discharge channel having a relatively larger flow cross section than the flow cross section of said constriction point such that the flow of gas is reduced in cross section as it flows through said gas discharge channel from said evaporator channel to said constriction point.
34. (New) The gas burner according to claim 13, including said inner wall and said outer wall of said evaporator each have a boundary surfaces, said boundary surfaces of said inner wall and said outer wall of said evaporator

delimiting an annular gap between said inner wall and said outer wall of said evaporator, said gas discharge channel having a gas jet opening constructed in said outer wall of said evaporator and said gas jet opening has a flow cross-section larger than the flow cross-section formed in said constriction point, the flow of gas from said evaporator channel to beyond said evaporator boundary wall flowing principally beyond said evaporator boundary wall after exiting said constriction point and not flowing into said annular gap between said inner wall and said outer wall of said evaporator.